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COURSE DESCRIPTIONS
and
GRADUATION REQUIREMENTS

1981-1982

Introduction
Faculty and courses
  Department of Sciences
    Biology
    Chemistry
    Physics
  Department of Mathematics and Computer Science
  Department of Humanities and Social Sciences
    Art
    English
    Foreign Languages
    Music
    Social Sciences
    Physical Activities
  Mentor Guided Research and Study
  Independent Study
  Media Services and Library
  Guidance
  Graduation requirements

west club boulevard and broad st. durham, n.c. 27705

Introduction

The course offerings described in the following pages have been developed for implementation in the 1981-1982 school year. They have been designed to provide both depth and breadth in the instructional program. Advanced studies are available in all the major academic disciplines represented in the curriculum with particularly varied and advanced choices available in Mathematics and the Sciences.

The first consideration in building each student's course of study is to ensure a thorough grounding in mathematical skills and concepts and in verbal skills including writing. Students are then urged to select an advanced sequence in at least one subject and also to sample several areas of study through choice of electives. The objective here is for students to learn enough about a variety of academic disciplines, both within and without the sciences, so that they have some breadth of understanding and information for making choices of courses of study at college.

Each student has ample opportunity to discuss his or her course choices with the faculty involved and with the Guidance Counselor and the Academic Dean who work together to ensure the appropriateness of each student's program. Consideration is given to the student's academic background, interests, and ability, to his or her personal growth, and to issues of college admissions. College guidance, through the Guidance Counselor's office, is thus integrated closely with academic guidance. Each student's program must have the final approval of the Academic Dean.

Independent Study Projects are developed directly with and approved by the faculty involved. Mentor relationships with faculty or other professional personnel in neighboring universities, colleges, museums, institutes, laboratories, or industries are developed by and with the supervision of a school faculty member.

The graduation requirements listed on the final page specify that English and Mathematics courses must be included each year and that juniors must take at least one science and one foreign language. American History and Literature are also required in the junior year unless the special conditions are met.

Department of Sciences

101 ADVANCED BIOLOGY. One year (1 unit of credit).

This course covers comparable material but is designed for students who do not wish to prepare for the Advanced Placement examination. Emphasis is on laboratory experiences, visiting speakers, and field study.

102 ADVANCED PLACEMENT BIOLOGY. One year (1 unit of credit).

(Prerequisite: Students must have completed a year of chemistry or be currently enrolled in a chemistry course.)

A survey of the field of biology with emphasis on class discussions and on laboratory study. Topics studied can be grouped into the major areas of molecular biology, organismal biology, and population biology.

103-A GENETICS. One quarter (¼ unit of credit). (Prerequisite: one year of general biology).

Topics include: Mendelian genetics, structure and function of nucleic acids, mutation and genetic diseases, eukaryotic chromosomal proteins and gene regulation, genetic engineering and cloning.

103-B BIOETHICS. One quarter (¼ unit of credit).

Students will explore ethical issues which have been raised by recent developments in the field of biological sciences. Topics could include: genetic engineering, reproductive technologies, organ and tissue transplantation, death and dying, population, environment and therapeutic relationships.

104-A BIOCHEMISTRY. One quarter (¼ unit of credit). (Prerequisite: Chemistry or permission of the teacher).

This introduction to Biochemistry will show how the fields of biology and chemistry work together to explain the processes that go on in living cells. Topics covered will include nucleic acids, proteins and chemical reactions in living systems, cellular respiration, and photosynthesis.

104-B ANATOMY. One quarter (¼ unit of credit). (Prerequisite: one year of general biology.)

The anatomies of several vertebrates will be studied and compared with a particular view to embryonic and phylogenetic development. Major emphasis will be placed on dissection.

105-A CELL BIOLOGY. One quarter (¼ unit of credit). (Prerequisite: one year of general biology.)

Starting with a consideration of cellular reproduction by mitosis and meiosis, cellular function and structure will be reviewed with an emphasis on cellular communication, metabolism, and movement through the study of unicellular organisms.

105-B MICROBIOLOGY. One quarter (¼ unit of credit). (Prerequisite: one year of general biology.)

A study of the structure and function of the simplest organisms, including: viruses, bacteria, protozoa, unicellular algae, and fungi. The ecological role of these organisms and the disease which they cause will also be considered.

106-A ANIMAL BEHAVIOR. One quarter (¼ unit of credit). (Prerequisite: one year of general biology.)

A survey of the mechanisms which control animal behavior, including: tropisms, taxes, fixed-action patterns, imprinting, conditioning, learning, reasoning, territoriality, social behavior of insects, social behavior of primates, migration, biological clocks, communication and orientation.

Chemistry

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101 GENERAL CHEMISTRY. One year (1 unit of credit).

This course is a survey of introductory topics. A special feature of the course is a well-equipped laboratory which makes significant demonstrations and experiments possible. The classroom time is devoted to development of insight into the modern theories of chemistry. These include the atomic model, molecular structure, chemical thermodynamics, and modern kinetic theory. Recommended for 11th grade students who have not completed a similar course.

201 ADVANCED CHEMISTRY. One year (1 unit of credit). (Prerequisite: a general chemistry course or permission of the instructor.) Students will use a college level text. The class will be conducted with emphasis on personal study. Programmable calculators will be used to find exact solutions to some problems that have been traditionally solved by approximate methods. Chemical equilibrium will be covered in much more detail than in the first year classes as will electrochemistry, nuclear chemistry, and chemical thermodynamics. This course will prepare students to take Advanced Placement examinations if they wish.

301 ORGANIC CHEMISTRY WITH AN INTRODUCTION TO SPECTROSCOPY. One year (1 unit of credit). (Prerequisite or Corequisite: Advanced Chemistry.)

This course is an introduction to structure and reactions of organic compounds. The relation between molecular structure and the details of infrared and nuclear magnetic resonance spectra will be studied. Laboratory work with visible spectra will be used to illustrate the principles of spectroscopy. Other laboratory work depends on the acquisition of equipment.

Physics

101 SURVEY OF PHYSICS. One year (1 unit of credit). (No prerequisite.)

This course includes topics in both classical and modern physics. The mathematics required is algebra with some elementary trigonometry. The course starts with the classical laws of motion, momentum, and energy. A short discussion of heat and thermodynamics is given. A substantial treatment of electricity and magnetism follows. Final topics will include waves and optics along with some discussion of modern physics. Suggested, but not required, as a prerequisite for Introductory Physics.

102 INTRODUCTORY PHYSICS. One year (1 unit of credit). (Prerequisite or Corequisite: Mathematics 202, 301, or 302.)

This course covers the same topics listed above but with considerably more emphasis on mechanics of motion and electricity/magnetism. Concepts of calculus are used freely in problem solving and derivations.

103-A TOPICS IN MODERN PHYSICS. One semester (¼ unit of credit). (Prerequisite: Introductory Physics and Pre or Corequisite: Calculus).

Topics will be selected from 1) special relativity, 2) particle/wave duality, 3) atomic structure, 4) quantum mechanics, 5) statistical mechanisms, 6) solid state, 7) nuclear structure, and 8) elementary particles. The course will involve a text with suitable problem assignments as well as outside reading.

103-B APPLIED ELECTRONICS. One semester (½ unit of credit).

Emphasis will be on practical application of electronics. One semester minimum length with independent work to be arranged beyond one semester to advance as far as desired. The course will start with basic electronic circuits and will use solderless breadboards to build and measure these circuits.

104-A ASTROPHYSICS: BLACK HOLES AND THE BIG BANG. One semester (½ unit of credit).

This course covers a selection of topics on the frontiers of astronomical research. The first half is devoted to Einstein's Special and General theories of relativity, particularly as applied to astronomical problems. The first section culminates in the discussion of the formation, detection, and behavior of black holes. The second half of the course covers large scale structure of the expanding universe and analyzes both the future (will it expand forever?) and the past (the Big Bang) in the context of current astronomical observations.

104-B ASTRONOMY

Department of Mathematics and Computer Science

101 ALGEBRA 2/TRIGONOMETRY. One year (1 unit of credit).

A strong course covering many of the standard topics in Algebra 2. Topics include: exponents, radicals, factoring polynomials, rational expressions, solutions of a wide variety of equations in one variable, introduction to functions (including work with logarithmic and trigonometric functions), linear and non-linear systems of equations, conics, and complex numbers. Emphasis is placed on problem solving, especially in the context of "word problems."

102 ALGEBRA 2 WITH PRECALCULUS. One year (1 unit of credit).

A faster paced version of 101 which includes a thorough discussion of functions, locus of points, inequalities, polar coordinates, and vectors. Students taking this course usually will select Calculus BC the following year.

103 PRECALCULUS. One year (1 unit of credit). (Prerequisite: Algebra 2).

Designed as preparation for either 202 or 301. Topics include: inequalities, locus of points, conic sections, limits, a thorough treatment of functions, an examination of elementary functions including polynomial, trigonometric, exponential and logarithmic functions, as well as complex numbers, polar coordinates, and vectors (n-space). As time permits, the course will include a short introduction to sequences and series, probability, and computer programming.

104 PRECALCULUS AND TOPICS. One year (1 unit of credit).

A faster paced version of 103 which will permit an exposure to other selected topics.

201 ESSENTIALS OF CALCULUS (See attached description)

202 CALCULUS AB. One year (1 unit of credit).

A course fulfilling the Calculus AB syllabus in the Advanced Placement program. Topics include: functions, limits, differentiation, integration, transcendental functions, curve sketching, physical applications, and methods of integration.

203-A PROBABILITY AND STATISTICS. One semester (½ unit of credit). (Prerequisite: Algebra 2.)

An introduction to probability and statistics with an approach flexible enough to accommodate students with varying course preparation. Topics include: counting, conditional probability, random variables, functions of random variables, binomial distribution, sampling, and statistical tests.

203-B MATHEMATICS COLLOQUIUM. One semester (½ unit of credit).

A course team-taught by the mathematics faculty and on occasions faculty from other disciplines. Topics vary from year to year depending on faculty and student interest. Typically, topics are selected from the areas of finite mathematics, number theory, elementary linear algebra, probability, geometry, and the history of mathematics.

204 EUCLIDEAN GEOMETRY. One year (½ unit of credit).

A directed study of the traditional topics covered in Euclidean Geometry. Topics include: a thorough treatment of parallel lines and planes, congruent and similar figures, right triangles and their properties, circles, areas and volumes.

101 INTRODUCTION TO COMPUTER PROGRAMMING.* One semester, two times a week, (½ unit of credit).

Topics include: the role and impact of computers, computer architecture, assembly language, BASIC, algorithms, and introduction to the applications of the computer in science and business.

201 INTRODUCTION TO COMPUTER SCIENCE.* One semester, two times a week, (½ unit of credit). (Prerequisite: familiarity with a programming language.)

A formal introduction to Computer Science/Computer Programming. Students will learn BASIC and Pascal. Topics include: standard algorithms, data structures, and meta-programs. Students may learn APL and FORTRAN if desired.

*In both 101 and 201 programming assignments will require significant amounts of time outside of regular class meeting time.

301 CALCULUS BC. One year (1 unit of credit).

A course fulfilling the Calculus BC syllabus in the Advanced Placement program. Topics include all of those in 105 and, in addition, an introduction to ordinary differential equations, polar coordinates, and infinite series.

302 CALCULUS BC AND TOPICS. One year (1 unit of credit)

A faster paced version of 301 which will permit an exposure to other selected topics.

303-A CALCULUS OF SEVERAL VARIABLES. One semester (½ unit of credit). (Prerequisite: 301)

A standard course in the Calculus of Several Variables. Topics include: vector analyses, partial differentiation, multiple integrals, line and surface integrals, and numerical methods.

303-B ORDINARY DIFFERENTIAL EQUATIONS/LINEAR ALGEBRA. One semester (½ unit of credit). (Prerequisite: 301, or with special permission, second semester 301 as a corequisite.)

An introduction to IDEs through a treatment making extensive use of linear algebra. Topics include: finite dimensional vector spaces, linear systems of ODE, a treatment of the existence and uniqueness theorems.

Department of Humanities and Social Sciences

Art

101 ART OVERVIEW. One semester (½ unit of credit).

Designed to provide students who have not taken an art course at NCSSM, regardless of experience, with exposure to a wide variety of art skills, including: line drawing, calligraphy, screen printing, and photography.

102 BEGINNING PHOTOGRAPHY. One semester (½ unit of credit).

Designed for beginner or student with moderate experience in photography. Will include lectures on the art of taking a good picture, film and paper chemistry, camera optics, camera operation, exposure calculations, film developing, and darkroom printing techniques. Course to conclude with independent student work.

202 ADVANCED PHOTOGRAPHY. One semester (½ unit of credit). (Prerequisite: prior photography experience.)

Designed to provide the experienced photographer with advanced darkroom, studio, and "in-the-field" skills. Color photography is introduced. Class begins with formal instruction and evolves toward independent student work.

103 MECHANICAL DRAWING. One semester (½ unit of credit).

A course for students with moderate or no experience in technical drawing. Will cover fundamentals of engineering and architectural drawing, utilizing a variety of technical drawing tools.

104 LINE DRAWING. One semester (½ unit of credit).

Teaches art fundamentals such as composition, shading, texture, and value by using pencil and pen and ink. Will utilize studio still life drawing, outdoor mini-field trips, and commercial art fundamentals.

105 SCREEN PRINTING. One semester (½ unit of credit).

Exposes students to various stencil preparation methods: hand painted, hand cut, paper, and photographic. Emphasis on producing limited edition prints and t-shirts.

106 CERAMICS. One semester (½ unit of credit).

Designed for beginning through advanced students. Teaches basics of handbuilding and wheelthrowing earthenware and stoneware clays. Includes glaze composition and kiln firing.

English

Junior English. The English program required of all juniors is divided into two components: American Literature and Writing. Students who have had an American Literature course should make this fact known to the English Department so that individual reading programs may be tailored.

Senior English. Each student is required to earn credit in two semesters of English in his or her senior year. In at least one of these semesters he or she must be enrolled in a literature course. Additional courses beyond the two semester requirements may be taken as electives.

101 AMERICAN LITERATURE/WRITING. One year. Required of all eleventh graders. One unit of credit.

This survey traces the development of our literary heritage and its relationship to our national character. It also integrates varied opportunities to develop practical writing skills and to explore the techniques and hardware of media communication. The course is divided into two sections: (1) technical writing is designed to sharpen expository writing skills in a variety of practical contexts - essays, journalism, scientific writing, and business writing; (2) media communications is designed to introduce the student to the possibilities of the audio, video, and computer communications that our expanding technology is rapidly opening up.

201 ENGLISH LITERATURE.* One semester (½ unit) or one year (1 unit of credit). Either semester may be taken independently of the other.

A survey of the literature of England from Beowulf to the present. Special attention will be paid to such major writers as Chaucer, Shakespeare, Swift, and to such movements as Romantic and Modern poetry.

202 THIRD WORLD LITERATURE.* One semester (½ unit of credit). This course will examine poetry, plays, short stories, and novels written by authors from African, Arab, Asian, South American, and African-American heritages. Students will explore the universal elements of such works. They will also discover the unique cultural and anthropological frames of reference contained in the literature. In the investigation of African-American writers, special emphasis will be given to application of knowledge gained from the junior year study of American History.

203 ADVANCED WRITING. One semester (½ unit of credit).

A study of the "how" of poetry, short stories, and drama and an opportunity for each student to produce his own work in these genres. Examples of each literary type will be examined and students will produce, discuss, criticize, and rework their own examples of the types studied.

204 DRAMA. One semester (½ unit of credit).

This course will concentrate on dramatic literature from different periods with emphasis on theatrical production. Practical experience in acting, directing, and play production will be integrated with the study of dramatic literature and the history of theater. The course will culminate in public performance of selected works.

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*Fulfills senior [illegible] requirement.

205 COMMUNICATIONS. One semester (½ unit of credit).

The film is the most significant new art form of the twentieth century, combining literary and visual art with technological expertise and economic acumen to produce something that is both art and industry. This course will examine the history of film and masterpieces of the film both past and present.

essential communication. Cultural aspects of the people are also introduced.

*Fulfills senior literature requirement.

201 FRENCH 2. One year (1 unit of credit).

While emphasis on the four basic language skills is continued, the student's competency in the language is further increased by 1) reading short texts, 2) oral discussion of material read by the class, 3) greater use of the language in everyday conversational situations, and 4) creative expression which may take the form of written compositions, oral reports, and short skits. Most of the grammatical constructions are learned.

301 FRENCH 3. One year (1 unit of credit).

This course continues the development of skills in oral, written, and aural French. The fine points of grammar, the more complex verb tenses, and many idiomatic expressions are treated in depth. The student is also afforded considerable practice in conversation French and composition. The cultures of French speaking countries throughout the globe are investigaged. Excerpts of a wide variety of great works from French literature are read and analyzed.

302 FRENCH 3 - SCIENTIFIC FRENCH. One year (1 unit of credit).

Reading from scientific and technical writings and journals in French. Each student chooses a particular field of interest. Emphasis is on scientific and technical vocabulary and the style of scientific writing.

401 FRENCH 4. ADVANCED PLACEMENT. One year (1 unit of credit).

Open to students with permission of the instructor.

402 FRENCH 4 - SCIENTIFIC FRENCH. One year (1 unit of credit).

Reading from scientific and technical writings and journals in French. Each student chooses a particular field of interest. Emphasis is on scientific and technical vocabulary and the style of scientific writing.

101 RUSSIAN 1. One year (1 unit of credit).

An introduction to the Russian language with emphasis on conversation, reading, writing, and acquisition of the basic grammatical constructions.

201 RUSSIAN 2. One year (1 unit of credit). (See insert)

101 SPANISH 1. One year (1 unit of credit).

Emphasis in this course is placed on the acquisiton of the of the four basic language skills: speaking, listening, comprehension, reading, and writing. The student acquires a base vocabulary and learns the simple grammatical constructions needed for essential communication. Cultural aspects of the people are also introduced.

201 SPANISH 2. One year (1 unit of credit).

While emphasis on the four basic skills is continued, the student's competency in the language is further increased by 1) reading short texts, 2) greater use of the language in everyday conversational situations, 3) oral discussion of material read by the class, and 4) creative expression which may take the form of written compositions, oral reports, and short skits. Most of the grammatical constructions are learned.

301 SPANISH 3. One year (1 unit of credit).

In this course reading selections of increasing difficulty from literature and culture form the basis for study and discussion by the class. The more complex grammatical constructions of the language are studied and reviewed. Filmstrips are used as a vehicle for cultural enrichment, vocabulary building, and grammar review. Oral and written reports are also used as a means of sharpening the student's skills in the language.

401 SPANISH 4. One year (1 unit of credit).

Reading from literature; advanced grammar and vocabulary building. This is an independent study course.

101 LATIN 1. One year (1 unit of credit).

Mastery of essential of Latin grammar, with particular emphasis on English derivatives and vocabulary building. Attention is also given to development of translation skills.

201 LATIN 2. One year (1 unit of credit).

Increased emphasis on translation, with exposure to ancient authors. Continued stress on English vocabulary development and on both Latin and English composition skills. Attention to Latin and Greek sources for medical and scientific technology.

301 LATIN 3. One year (1 unit of credit).

Readings in authors of the classical and medieval periods. Continuing development of prose composition skills. Introduction to supplementary areas in the field of classical studies. Continued attention to Latin and Greek sources for medical and scientific terminology.

101 GERMAN 1. One year (1 unit of credit).

Emphasis in this course is placed on the acquisition of the four basic language skills: speaking, listening, comprehension, reading, and writing. The student acquires a base vocabulary and learns the simple grammatical constructions needed for essential communication. Cultural aspects of the people are also introduced.

201 GERMAN 2. One year (1 unit of credit).

Emphasis on the four basic language skills begun in German 1 is continued. The student's competency in the language is further increased by the reading and discussion of short texts.

The more complex grammatical constructions are learned and practiced. Filmstrips are used for cultural and vocabulary enrichment.

301 GERMAN 3. One year (1 unit of credit).
Reading selections of increasing difficulty from literature and culture form the basis for study. The more complex grammatical constructions of the language are studied and reviewed. This is an independent study course.

Music

101 CHORUS. One semester (½ unit of credit) or one year (1 unit of credit). (Prerequisite: audition or permission of the instructor.)
Through rehearsal and performance, significant choral repertoire from various styles and periods will be studied. Techniques of vocal production and basic music skills (sight-reading, ear-training, notation) will be stressed along with an understanding of the literature. Course credit, standard grading. Includes off-campus performances.

102 WIND ENSEMBLE. One semester (½ unit of credit) or one year (1 unit of credit). (Prerequisite: audition or permission of the instructor.)
Music written or arranged for wind instruments (and percussion) is studied, rehearsed, and performed. Repertoire will range from works for the full ensemble to quartets, trios, and solos to develop independence and technique. Course credit, standard grading. Includes off-campus performances.

201 ADVANCED PALCEMENT MUSIC THEORY. One year (1 unit of credit). (Prerequisite: basic knowledge of music notation, chords, key

signatures, and scales.)

Harmony (chords, modulations, part-writing) counterpoint, form and structure, instrumentation, and rhythm will be studied and applied to pieces of various styles and genres. Basic music skills (ear-training, sight-singing, dictation) will be developed. Includes work on VAX computer-music system in individual composition as well as preparation for the AP music theory test.

103 STRING ENSEMBLE (credit to be arranged)

104 MUSIC LITERATURE AND THEORY. One semester (½ unit of credit) or one year (1 unit of credit). (Prerequisite: modest ability to read music.)

Basics of music theory combined with an exploration of various works and styles in music literature. Includes special projects.

105 MUSIC 1. One quarter (¼ unit of credit).

Designed for those with absolutely no background in music. An all-you-wanted-to-know whirlwind touching on basic notation, ear-training, computer music, great composers, aesthetics, and modern music among other topics.

Social Sciences

101 ADVANCED AMERICAN STUDIES. One year (1 unit of credit). Required of all eleventh graders. If a student has completed an American History course in the tenth grade or feels that he or she has a strong background in American history, the student has two options: 1) the student may be exempted from Advanced American Studies and enroll instead in the Advanced Placement course in American History in the junior year; or 2) the stu-

MINIMUM GRADUATION REQUIREMENTS
(continued)

*--If a comparable course has been taken in the tenth grade and competency can be demonstrated, the student will be permitted to substitute another course in that department.

**--In science, the requirement may also be satisfied through participation in the Mentor Program and/or through independent research projects.

***--All courses in curriculum, including Art and Music, may satisfy the elective requirements.

Other requirements for graduation -

Satisfactory participation in work service and community service

Passing score on the annual statewide competency test.

MINIMUM GRADUATION REQUIREMENTS[1]

Subject	Credits Earned at Previous School	Additional Credits Required by NCSSM	Total Number of Credits Required	Comments
English	2	2	4	one each in junior and senior year including American Literature and writing
Mathematics	2	2	4	must complete Precalculus; must demonstrate computer literacy (effective class of '83); must be enrolled in math each semester (not Probability and Statistics); must have completed Geometry at previous school or by proficiency exam at NCSSM.
Social Science	1	1	2	one credit must be in American History,* including a social sciences skills and methodology component.
Science	1	3	4	one year each of biology, chemistry and physics.**
Foreign Languages	0	2	2	All students must take a language in grade 11. All students must complete two years of study of the same language to meet NCSSM graduation requirements. Students who take the first year of a foreign language during their Junior Year will continue study of that language during their Senior Year unless otherwise recommended by the instructor and/or the office of the Dean for Academic Affairs.
or	1	1	2	
or	2	1	3	
Physical Activity & Wellness	1	½	1 & ½	½ unit required in junior year at NCSSM
Mentor Program or Independent Study		½	½	effective class of 1983
Electives***	1	1	2	
TOTAL	8		20	SEE FOLLOWING PAGE FOR FOOTNOTE

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[1] In special circumstan[illegible] uirement may be waived with the permission of [illegible]

dent may take a placement test in American History given by the department, and if the student makes a score sufficient to place out of Advanced American Studies, he or she will enroll during the junior year in one unit of Social Science electives (exception: Wisdom, Revelation, Reason and Doubt).

This interdisciplinary course will trace the development of the United States from 1607 until the present. Emphasis will be placed on social, intellectual, political, economic, and cultural trends. This course is also designed to introduce methods and techniques of the historian. Special emphasis will be placed on reading, writing, and research skills and the use of media and tabular data in the social sciences.

102 ADVANCED PLACEMENT AMERICAN STUDIES. One year (1 unit of credit).

See the description of Advanced American Studies. Through various assignments these students will be prepared to take the Advanced Placement examination in May.

201 ECONOMICS: MONEY, MANAGEMENT, AND MARKETS. One semester (½ unit of credit).

This introductory course in economics will give students a significant opportunity to apply the techniques and learnings of mathematics and science to social problems. The course is a study of theories and institutions that organize and direct economic activities of mankind. It is designed to help the student understand basic economics and the problems on which he or she will have to pass judgement in today's society.

202-A WORLD RELIGIONS IN PERSPECTIVE. One quarter (½ unit of credit).

A comparative and critical study of the chief religions of the world with special attention to their social significance and impact on modern world thought will be the focus of this course.

202-B CONTEMPORARY AMERICAN POLITICS. One quarter (¼ unit of credit).

This course stresses the role and impact of various political groups, the media, and the world situation on traditional institutions and practices in American plitical life today.

203-A SCIENCE AND SOCIETY THROUGH THE AGES. One quarter (¼ unit of credit).

This course will trace the basic development in scientific thought from the earliest time to the present. Beginning with "magic" as mankind attempts to deal with the mysteries of the universe, the course will proceed to discuss major scientific thinkers and inventors. Emphasis will be placed on the societal context in which these developments occurred.

203-B SELF AND SOCIETY. One quarter (¼ unit of credit).

This introductory course will deal with man as an individual and a member of society. Combining both psychology and sociology, emphasis will be placed on such areas as the development of personality, abnormal behavior, intellect vs. intelligence, socialization, social systems and social interaction.

204-A EMERGING NATIONS AND PEOPLE. One quarter (¼ unit of credit).

A study of the rise of new forces on the world scene and their implications for the future is the focus of this course. Changing geography, new political ideologies and the entrance of new forces into world politics will form the core of this course.

205 THE BLACK PEOPLE IN THE MAKING OF AMERICA. One semester (½ unit of credit).

The roots, development, problems, group consciousness and dreams of the Blacks in the United States will be studied. Special attention will be given to the present day status of Blacks and directions for the future.

Physical Activities and Wellness

101 PHYSICAL ACTIVITY FOR JUNIORS. One year (1 unit of credit). Required. Two periods per week.

Designed to encourage and promote lifestyles based on the importance of wellness through vigorous activities and good health habits. Topics shall include but not be restricted to the following:

a. health risks and their relationship to quality of life and longevity
b. physical activity and
    1. weight control
    2. sexuality
    3. cardio-respiratory conditioning
    4. lifetime sports, and
    5. functional anatomy and kinesiology.

102 KINESIOLOGY. One quarter (¼ unit of credit).

This course investigates and analyzes the physics and neuromuscular funcitons of human movement. Each student, with teacher approval, will select, film, and analyze movements in at least one particular sport of activity as part of an individual project.

Mentor Guided Research and Study

PROGRAM

Students spend three to five hours per week assisting professional researchers in Triangle area universities, institutions, and companies in the following fields: mathematics, science, engineering, architecture, and medicine.

Pairing of researchers and students is arranged by a faculty coordinator who also monitors the plan and objectives of the student's participation. A periodic evaluation is completed jointly by the mentor, the student, and the faculty coordinator.

Where possible, summer internships may be arranged in a student's home community.

Independent Study

PROGRAM. Pre-requisite: Approval of sponsoring member(s) and Dean of Academic Affairs. Available in all disciplines. Length of time at discretion of instructor.

Independent study is available to any student who wishes to explore a topic or area of interest not offered in the curriculum. The student and the instructor together will design the program of study, and determine the number and frequency of meetings and amount of credit to be earned.

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